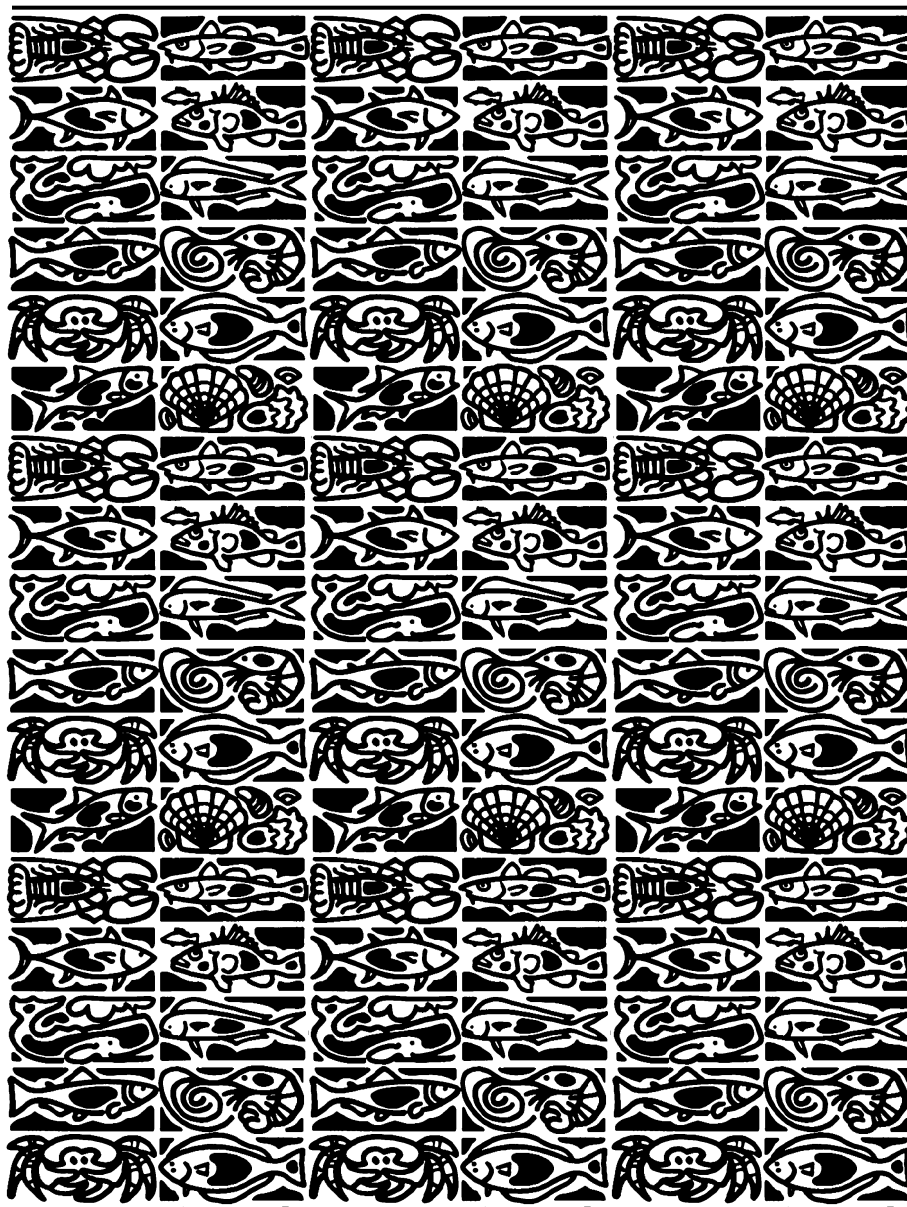




**U.S. Department
of Commerce**

**Volume 107
Number 3
July 2009**

Fishery Bulletin



**U.S. Department
of Commerce**
Seattle, Washington

**Volume 107
Number 3
July 2009**

Fishery Bulletin

Contents

Articles

- 265–277 **Chiang, Wei-Chuan, Chi-Lu Sun, Sheng-Ping Wang,
Su-Zan Yeh, Yong Chen, Wei-Cheng Su, Don-Chung Liu,
and Wen-Yie Chen**
Analysis of sex-specific spawning biomass per recruit
of the sailfin (*Istiophorus platypterus*) in the waters
off eastern Taiwan
- 278–285 **Boldt, Jennifer L., and Christopher N. Rooper**
Abundance, condition, and diet of juvenile Pacific
ocean perch (*Sebastes alutus*) in the Aleutian Islands
- 286–297 **Broadhurst, Matt K., Russell B. Millar, Craig P. Brand,
and Sebastian S. Uhlmann**
Modified sorting technique to mitigate the collateral mortality
of trawled school prawns (*Metapenaeus macleayi*)
- 298–307 **Brill, Richard, Peter Bushnell, Leonie Smith, Coley Speaks,
Rumya Sundaram, Eric Stroud, and John Wang**
The repulsive and feeding-deterrent effects of electropositive
metals on juvenile sandbar sharks (*Carcharhinus plumbeus*)
- 308–317 **Grizzle, Raymond E., Larry G. Ward, Larry A. Mayer,
Mashkoor A. Malik, Andrew B. Cooper, Holly A. Abeels,
Jennifer K. Greene, Melissa A. Brodeur, and
Andrew A. Rosenberg**
Effects of a large fishing closure on benthic communities in
the western Gulf of Maine: recovery from the effects
of gillnets and otter trawls
- 318–328 **Riley, Kenneth L., Charles R. Weirich, and David Cerino**
Development and growth of hatchery-reared larval
Florida pompano (*Trachinotus carolinus*)

The National Marine Fisheries Service (NMFS) does not approve, recommend, or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to NMFS, or to this publication furnished by NMFS, in any advertising or sales promotion which would indicate or imply that NMFS approves, recommends, or endorses any proprietary product or proprietary material mentioned herein, or which has as its purpose an intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication.

The NMFS Scientific Publications Office is not responsible for the contents of the articles or for the standard of English used in them.

- 329–338 Mather, Martha E., John T. Finn, Kristen H. Ferry, Linda A. Deegan, and Gary A Nelson**
Use of non-natal estuaries by migratory striped bass (*Morone saxatilis*) in summer
- 339–342 Hoolihan, John P., Nerida F. Perez, Ronald M. Faugue, Andrea M. Bernard, Rebekah L. Horn, Derke Snodgrass, Duane R. Schultz**
Surface mucous as a source of genomic DNA from Atlantic billfishes (Istiophoridae) and swordfish (Xiphiidae)
- 359–372 Grigg, Emma K., A Peter Klimley, Sarah G. Allen, Deborah E. Green, Deborah L. Elliott-Fisk, and Hal Markowitz**
Spatial and seasonal relationships between Pacific harbor seals (*Phoca vitulina richardii*) and their prey, at multiple scales
- 373–383 Graves, John E., Andrij Z. Horodysky, and Robert J. Latour**
Use of pop-up satellite archival tag technology to study postrelease survival of and habitat use by estuarine and coastal fishes: an application to striped bass (*Morone saxatilis*)
- 384–394 Craddock, James E., Pamela T. Polloni, Brett Hayward, and Frederick Wenzel**
Food habits of Atlantic white-sided dolphins (*Lagenorhynchus acutus*) off the coast of New England
- 395–402 Humborstad, Odd-Børre, Michael W. Davis, and Svein Løkkeborg**
Reflex impairment as a measure of vitality and survival potential of Atlantic cod (*Gadus morhua*)
- 403 Guidelines for authors**

Fishery Bulletin 107(3):265–404, July 2009

U.S. Department of Commerce

Gary Locke
Secretary of Commerce

National Oceanic and Atmospheric Administration

Jane Lubchenco, Ph.D.
Administrator of NOAA

National Marine Fisheries Service

James W. Balsiger, Ph.D.
Acting Assistant Administrator
for Fisheries



The *Fishery Bulletin* (ISSN 0090-0656) is published quarterly by the Scientific Publications Office, National Marine Fisheries Service, NOAA, 7600 Sand Point Way NE, BIN C15700, Seattle, WA 98115-0070. Periodicals postage is paid at Seattle, WA. POSTMASTER: Send address changes for subscriptions to *Fishery Bulletin*, Superintendent of Documents, Attn.: Chief, Mail List Branch, Mail Stop SSOM, Washington, DC 20402-9373.

Although the contents of this publication have not been copyrighted and may be reprinted entirely, reference to source is appreciated.

The Secretary of Commerce has determined that the publication of this periodical is necessary according to law for the transaction of public business of this Department. Use of funds for printing of this periodical has been approved by the Director of the Office of Management and Budget.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Subscription price per year: \$36.00 domestic and \$50.40 foreign. Cost per single issue: \$21.00 domestic and \$29.40 foreign. **See back for order form.**

Fishery Bulletin

Scientific Editor

Richard D. Brodeur, Ph.D.

Associate Editor

Julie Scheurer

National Marine Fisheries Service
Northwest Fisheries Science Center
2030 S. Marine Science Dr.
Newport, Oregon 97365-5296

Managing Editor

Sharyn Matriotti

National Marine Fisheries Service
Scientific Publications Office
7600 Sand Point Way NE
Seattle, Washington 98115-0070

Editorial Committee

John Carlson	National Marine Fisheries Service, Panama City, Florida
Kevin Craig	Florida State University, Tallahassee, Florida
Jeff Leis	Australian Museum, Sydney, New South Wales, Australia
Rich McBride	National Marine Fisheries Service, Woods Hole, Massachusetts
Rick Methot	National Marine Fisheries Service, Seattle, Washington
Adam Moles	National Marine Fisheries Service, Auke Bay, Alaska
Frank Parrish	National Marine Fisheries Service, Honolulu, Hawaii
Dave Somerton	National Marine Fisheries Service, Seattle, Washington
Ed Trippel	Department of Fisheries and Oceans, St. Andrews, New Brunswick, Canada
Mary Yoklavich	National Marine Fisheries Service, Santa Cruz, California

***Fishery Bulletin* web site: www.fishbull.noaa.gov**

The *Fishery Bulletin* carries original research reports and technical notes on investigations in fishery science, engineering, and economics. It began as the Bulletin of the United States Fish Commission in 1881; it became the Bulletin of the Bureau of Fisheries in 1904 and the *Fishery Bulletin* of the Fish and Wildlife Service in 1941. Separates were issued as documents through volume 46; the last document was No. 1103. Beginning with volume 47 in 1931 and continuing through volume 62 in 1963, each separate appeared as a numbered bulletin. A new system began in 1963 with volume 63 in which papers are bound together in a single issue of the bulletin. Beginning with volume 70, number 1, January 1972, the *Fishery Bulletin* became a periodical, issued quarterly. In this form, it is available by subscription from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. It is also available free in limited numbers to libraries, research institutions, State and Federal agencies, and in exchange for other scientific publications.

Fishery Bulletin

Guidelines for authors

Manuscript Preparation

Contributions published in *Fishery Bulletin* describe original research in marine fishery science, fishery engineering and economics, as well as the areas of marine environmental and ecological sciences (including modeling). Preference will be given to manuscripts that examine processes and underlying patterns. Descriptive reports, surveys, and observational papers may occasionally be published but should appeal to an audience outside the locale in which the study was conducted. Although all contributions are subject to peer review, responsibility for the contents of papers rests upon the authors and not on the editor or publisher. *Submission of an article implies that the article is original and is not being considered for publication elsewhere.* **Articles** may range from relatively short contributions (10–15 typed, double-spaced pages, tables and figures not included) to extensive contributions (20–30 typed pages). Manuscripts must be written in English; authors whose native language is not English are strongly advised to have their manuscripts checked by English-speaking colleagues before submission.

Title page should include authors' full names and mailing addresses and the senior author's telephone, fax number, and e-mail address, and a list of key words to describe the contents of the manuscript. **Abstract** should be limited to 200 words (one-half typed page), state the main scope of the research, and emphasize the author's conclusions and relevant findings. Do not review the methods of the study or list the contents of the paper. Because abstracts are circulated by abstracting agencies, it is important that they represent the research clearly and concisely. **Text** must be typed in 12 point Times New Roman font throughout. A brief introduction should convey the broad significance of the paper; the remainder of the paper should be divided into the following sections: **Materials and methods**, **Results, Discussion (or Conclusions)**, and **Acknowledgments**. Headings within each section must be short, reflect a logical sequence, and follow the rules of multiple subdivision (i.e., there can be no subdivision without at least two items). The entire text should be intelligible to interdisciplinary readers; therefore, all acronyms, abbreviations, and technical terms should be written out in full the first time they are mentioned. Include FAO common names for species in the list of keywords and in the introduction. Regional common names may be used throughout the rest of the text if they are different from FAO common names which can be found at <http://www.fishbase.org/search.html>. Follow the U.S. Government Printing Office Style Manual (1984 ed.) and the CBE Style Manual (6th ed.) for editorial style; for fish nomenclature follow the most current issue of

the American Fisheries Society's Common and Scientific Names of Fishes from the United States and Canada. Dates should be written as follows: 11 November 2000. Measurements should be expressed in metric units, e.g., 58 metric tons (t); if other units of measurement are used, please make this fact explicit to the reader. Write out the numbers zero through nine unless they form part of measurement units (e.g., nine fish but 9 mm). Refrain from using the shorthand slash (/), an ambiguous symbol, in the general text.

Literature cited comprises published works and those accepted for publication in peer-reviewed literature (in press). Follow the name and year system for citation format in the "Literature cited" section (that is say, citations should be listed alphabetically by the authors' last names, and then by year if there is more than one citation with the same authorship). If there is a sequence of citations in the text, list chronologically: (Smith, 1932; Green, 1947; Smith and Jones, 1985). Abbreviations of serials should conform to abbreviations given in the Serial Sources for the BIOSIS Previews Database. Authors are responsible for the accuracy and completeness of all citations. Literature citation format: Author (last name, followed by first-name initials). Year. Title of report or manuscript. Abbreviated title of the series to which it belongs. Always include number of pages. Cite all software and special equipment or chemical solutions used in the study, not in a footnote but within parentheses in the text (e.g., SAS, vers. 6.03, SAS Inst., Inc., Cary, NC).

Tables are often overused in scientific papers; it is seldom necessary or even desirable to present all the data associated with a study. Tables should not be excessive in size and must be cited in numerical order in the text. Headings should be short but ample enough to allow the table to be intelligible on its own. All unusual symbols must be explained in the table legend. Other incidental comments may be footnoted with italic numeral footnote markers. Use asterisks to indicate probability in statistical data. Do not type table legends on a separate page; place them above the table data. *Do not submit tables in photo mode.*

- Zeros should precede all decimal points for values less than one.
- Sample size, *n*, should be italicized.
- Capitalize the first letter of the first word in all labels within figures.
- Do not use overly large font sizes in maps and for units of measurements along axes in figures.
- Do not use bold fonts or bold lines in figures.
- Do not place outline rules around graphs.
- Do not use horizontal lines through graphs to indicate measurement units.
- Use a comma in numbers of five digits or more (e.g. 13,000 but 3000).
- Maps require a North arrow and degrees latitude-longitude (e.g., 170°E).

Figures include line illustrations, photographs (or slides), and computer-generated graphs and must be cited in numerical order in the text. Graphics should aid in the comprehension of the text, but they should be limited to presenting patterns rather than raw data. Figures should not exceed one figure for every four pages of text. Figures must be labeled with author's name and number of the figure. Avoid placing labels vertically (except of y axis). Figure legends should explain all symbols and abbreviations and should be double-spaced on a separate page at the end of the manuscript. Please note that we do not print graphs in color.

**Failure to follow these guidelines
and failure to correspond with editors
in a timely manner will delay
publication of a manuscript.**

Copyright law does not apply to *Fishery Bulletin*, which falls within the public domain. However, if an author reproduces any part of an article from *Fishery Bulletin* in his or her work, reference to source is considered correct form (e.g., Source: Fish. Bull 97:105).

Submission

The Scientific Editorial Office encourages authors to submit their manuscripts as a *single* PDF (preferred) or Word (zipped) document by e-mail to Fishery.Bulletin@noaa.gov. Please use the subject heading, "Fishery Bulletin manuscript submission". *Do not* send encrypted files. Commerce Department personnel

should submit papers under a completed NOAA Form 25-700. For further details on electronic submission, please contact the Scientific Editorial Office directly (see address below). Or you may send your manuscript on a compact disc in one of the above formats along with four printed copies (one original plus three copies [stapled]) to the Scientific Editor, at the address shown below.

Richard D. Brodeur, Ph.D.
Scientific Editor, *Fishery Bulletin*
Northwest Fisheries Science Center
2030 S. Marine Science Dr.
Newport, Oregon 97365-5296

Once the manuscript has been accepted for publication, you will be asked to submit a final electronic copy of your manuscript. When requested, the text and tables should be submitted in Word or Word Rich Text Format. Figures should be sent as PDF files, Windows metafiles, tiff files, or EPS files. Send a copy of figures in the original software if conversion to any of these formats yields a degraded version.

Questions? If you have questions regarding these guidelines, please contact the Managing Editor, Sharyn Matriotti, at

Sharyn.Matriotti@noaa.gov

Questions regarding manuscripts under review should be addressed to Richard Brodeur, Scientific Editor, at Rick.Brodeur@noaa.gov.

Subscription form

*5178

_____ Subscriptions to *Fishery Bulletin*
for \$36.00 per year (\$50.40 foreign)

(Purchase Order No.)



--	--	--	--

 (Credit card expiration date)

***Thank you for
your order!***

Also available online at <http://bookstore.gpo.gov/collections/fishery-bulletin>

